

501/165
Rec'd PCT/PTO 19 11 2004

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
31 July 2003 (31.07.2003)

PCT

(10) International Publication Number
WO 03/061709 A1

(51) International Patent Classification⁷: A61K 47/48

(21) International Application Number: PCT/GB02/00199

(22) International Filing Date: 18 January 2002 (18.01.2002)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): ADVANCED PHYTONICS LIMITED [GB/GB]; Olway Works, Healey Road, Ossett WF5 8LT (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BELLAMY, Simon, Andrew [GB/GB]; c/o Rohm & Haas, Lennig House, 2 Masons Avenue, Croydon, Surrey CR9 3NB (GB). HUGHES, Lyn [GB/GB]; c/o Rohm & Haas, Lennig House, 2 Masons Avenue, Croydon, Surrey CR9 3NB (GB). NICOLA, Mazin [GB/GB]; 6 St Michael's Road, Worthing, West Sussex BN11 4SD (GB).

(74) Agents: NEILL, Alastair, William et al.; Appleyard Lees, 15 Clare Road, Halifax HX1 2HY (GB).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 03/061709 A1

(54) Title: A METHOD FOR PREPARING RESINATES

(57) Abstract: A highly productive and environmentally friendly method of loading pharmaceutically active substances onto ion exchange resins using a water miscible or water-immiscible solvent is disclosed.

INTERNATIONAL SEARCH REPORT

PCT/GB 02/00199

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61K47/48

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EMBASE, BIOSIS, EPO-Internal, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	IRWIN W J ET AL: "DRUG-DELIVERY BY ION-EXCHANGE. PART VII: RELEASE OF ACIDIC DRUGS FROM ANIONIC EXCHANGE RESINATE COMPLEXES" DRUG DEVELOPMENT AND INDUSTRIAL PHARMACY, NEW YORK, NY, US, vol. 16, no. 6, 1990, pages 883-898, XP001029685 ISSN: 0363-9045 abstract ----	1-21
E	EP 1 190 721 A (ROHM & HAAS) 27 March 2002 (2002-03-27) column 4, line 48 -column 5, line 3; claims 1,3,10 ----	1-21 -/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubts on priority, claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the International filing date but later than the priority date claimed

- *T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

2 October 2002

09/10/2002

Name and mailing address of the ISA
European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Berte, M

INTERNATIONAL SEARCH REPORT

PCT/GB 02/00199

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	EP 1 175 914 A (ROHM & HAAS) 30 January 2002 (2002-01-30) claims; examples 1-3,7 -----	1-21
E	EP 1 175 915 A (ROHM & HAAS) 30 January 2002 (2002-01-30) claims 1,10; examples 1,2,7 -----	1-21

INTERNATIONAL SEARCH REPORT**PCT/GB 02/00199****Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)**

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see **FURTHER INFORMATION sheet PCT/ISA/210**

3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International Application No. PCT/GB 02 00199

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Present claims 1-21 relate to an extremely large number of possible compounds or methods. In fact, the claims contain so many options, that a lack of clarity (and/or conciseness) within the meaning of Article 6 PCT arises to such an extent as to render a meaningful search of the claims impossible. Consequently, the search has been carried out for those parts of the application which do appear to be clear (and/or concise), namely compounds or methods have been searched recited in the examples.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

Information on patent family members

PCT/GB 02/00199

Patent document cited in search report	Publication date	Patent family member(s)			Publication date
EP 1190721	A 27-03-2002	EP 1190721 A2	JP 2002114682 A	US 2002015687 A1	27-03-2002 16-04-2002 07-02-2002
EP 1175914	A 30-01-2002	EP 1175914 A2	JP 2002060350 A	US 2002032245 A1	30-01-2002 26-02-2002 14-03-2002
EP 1175915	A 30-01-2002	EP 1175915 A1	JP 2002053495 A	US 2002031490 A1	30-01-2002 19-02-2002 14-03-2002